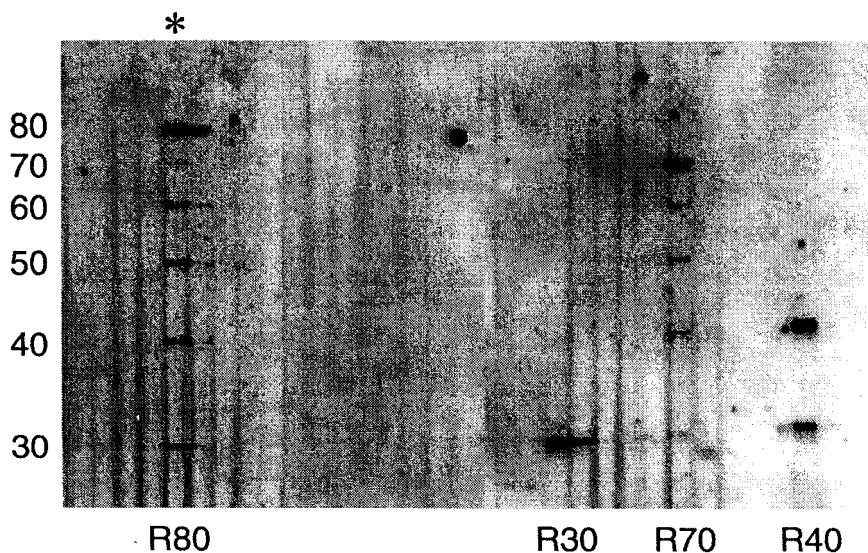


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**Fig. 1a**



**Fig. 1b**

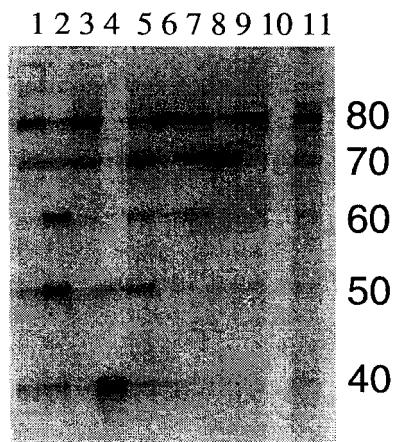
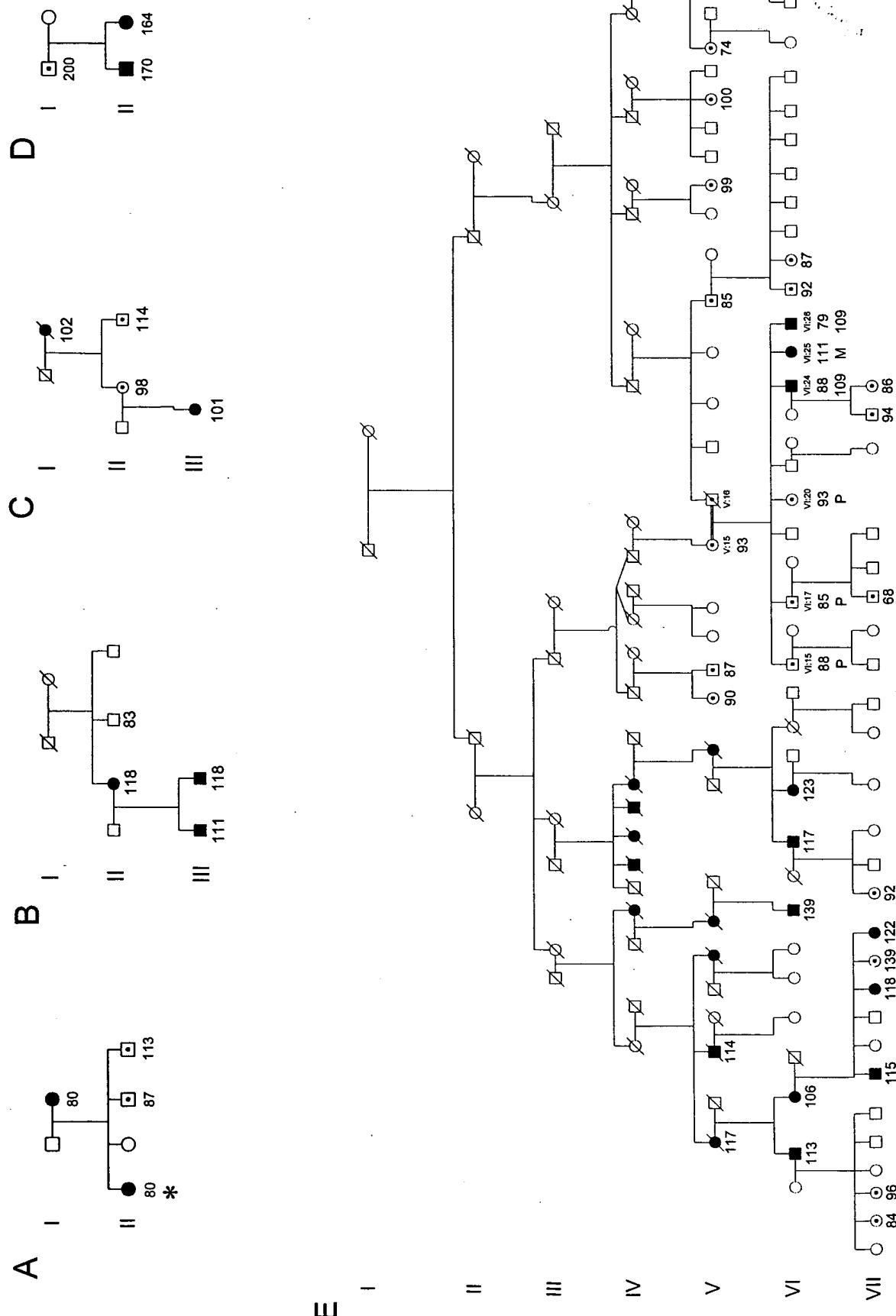
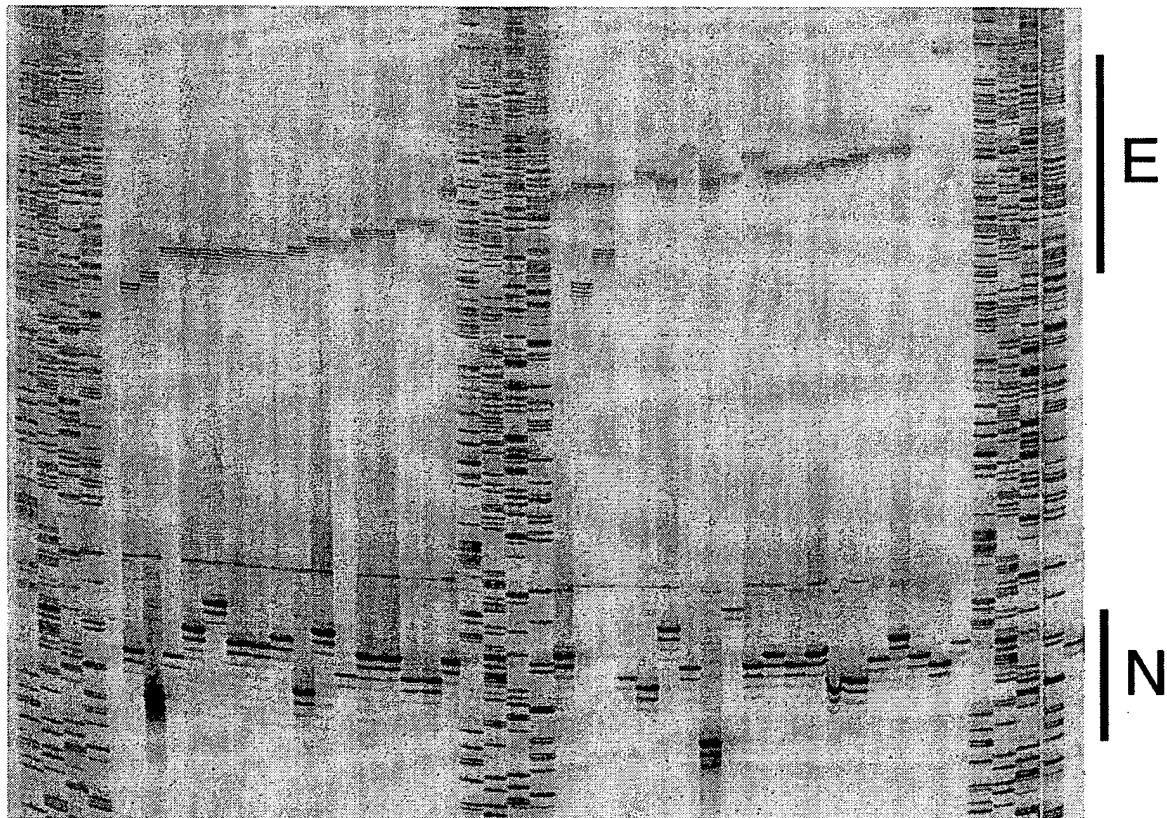
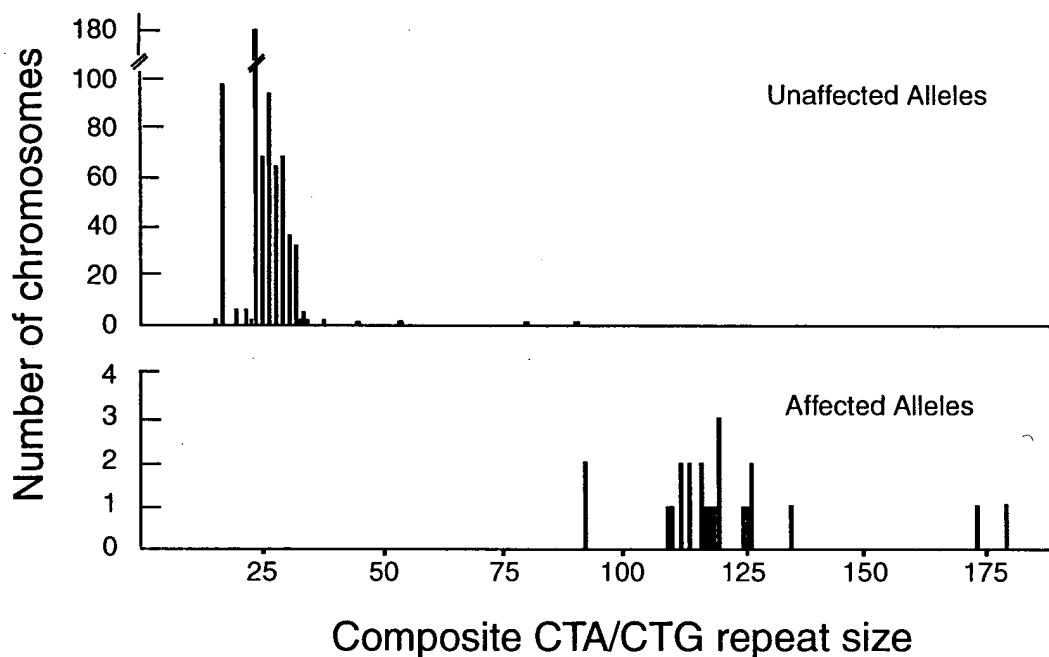


Fig. 2



**Fig. 3a**



**Fig. 3b**

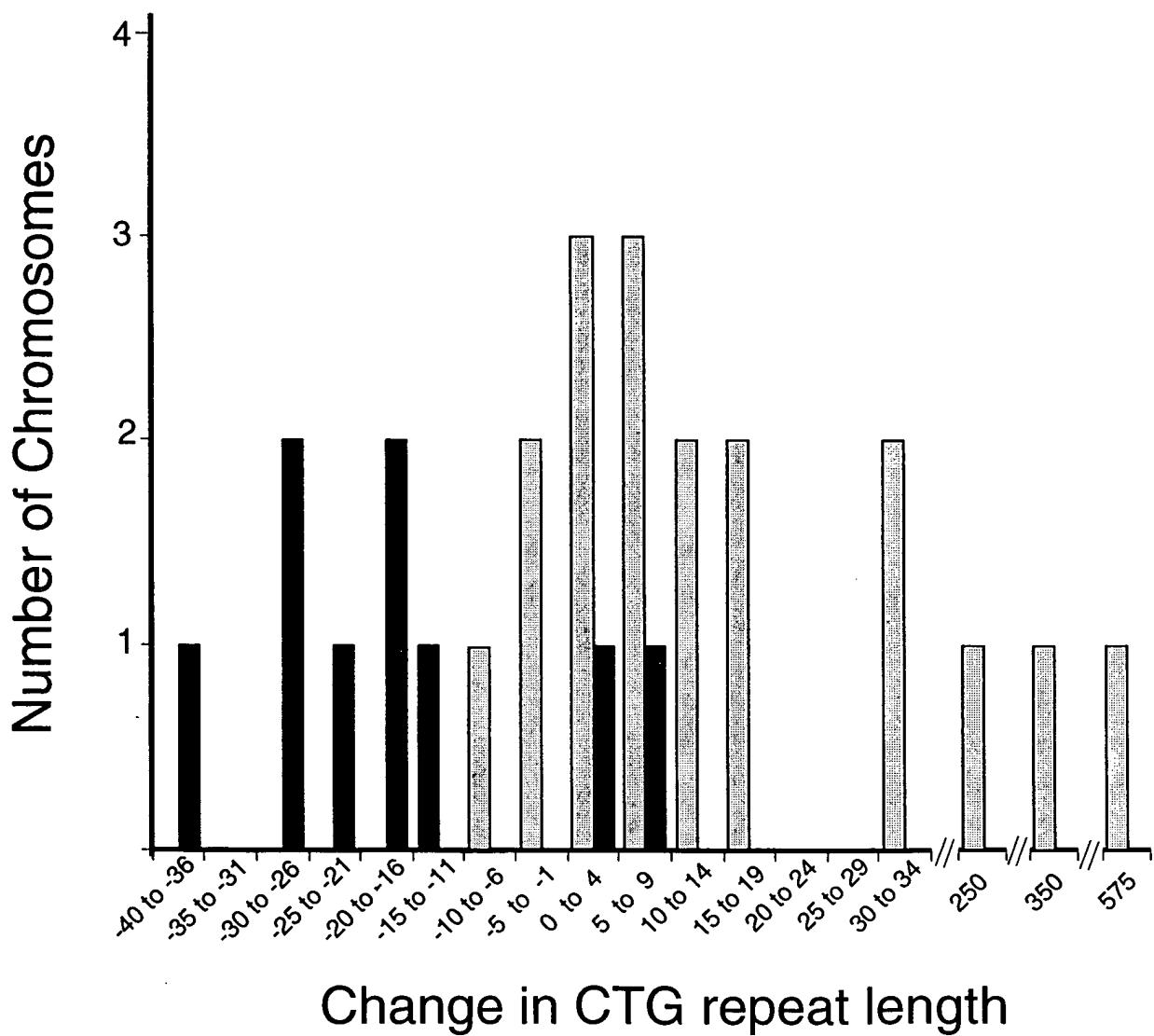
**Fig. 4**

Fig. 5

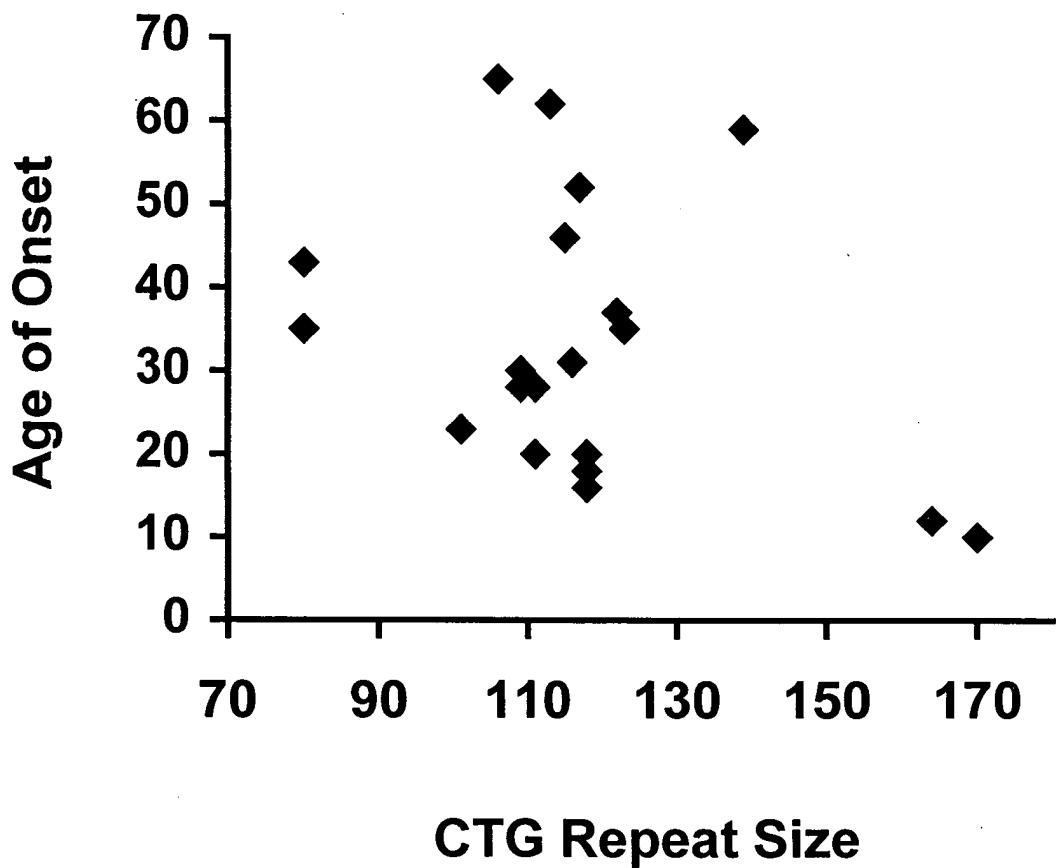


Fig. 6a

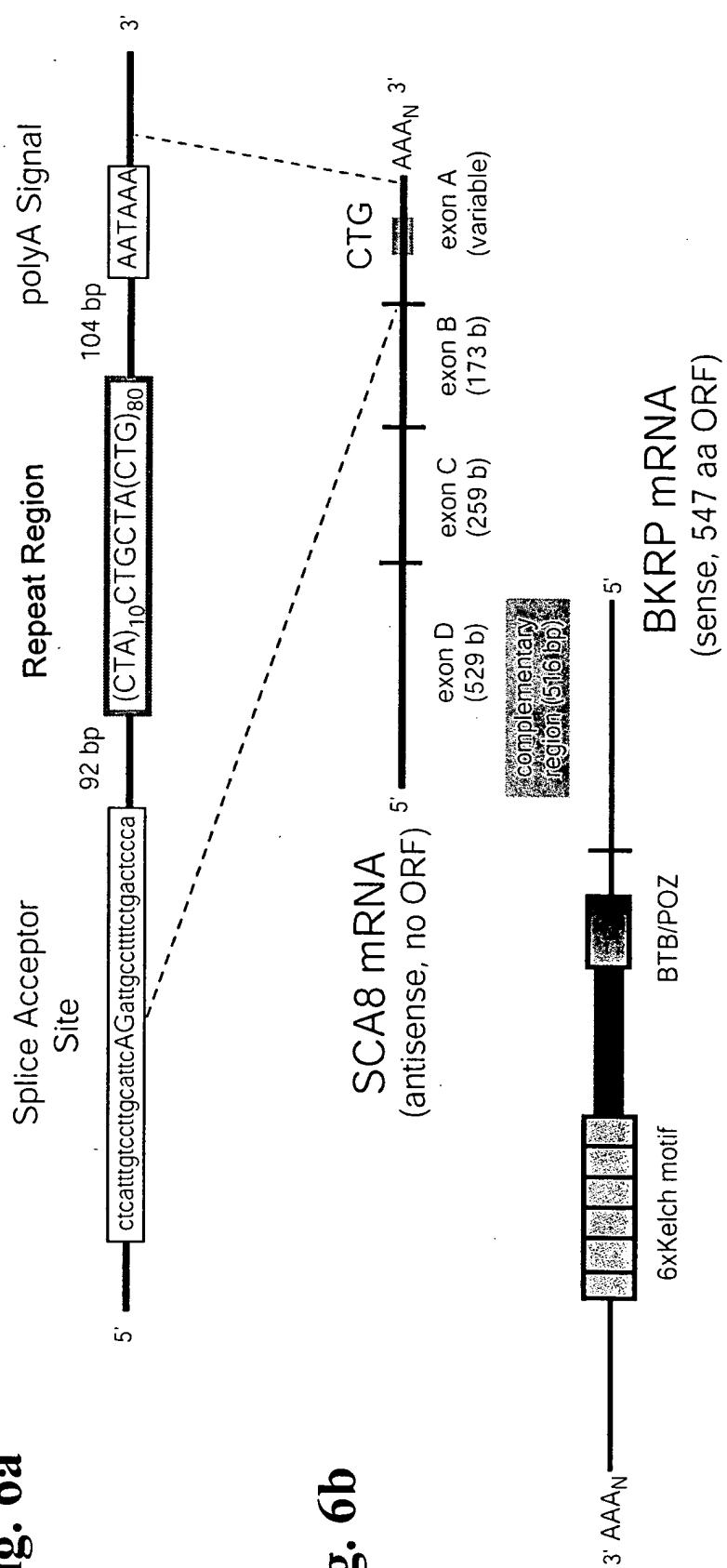
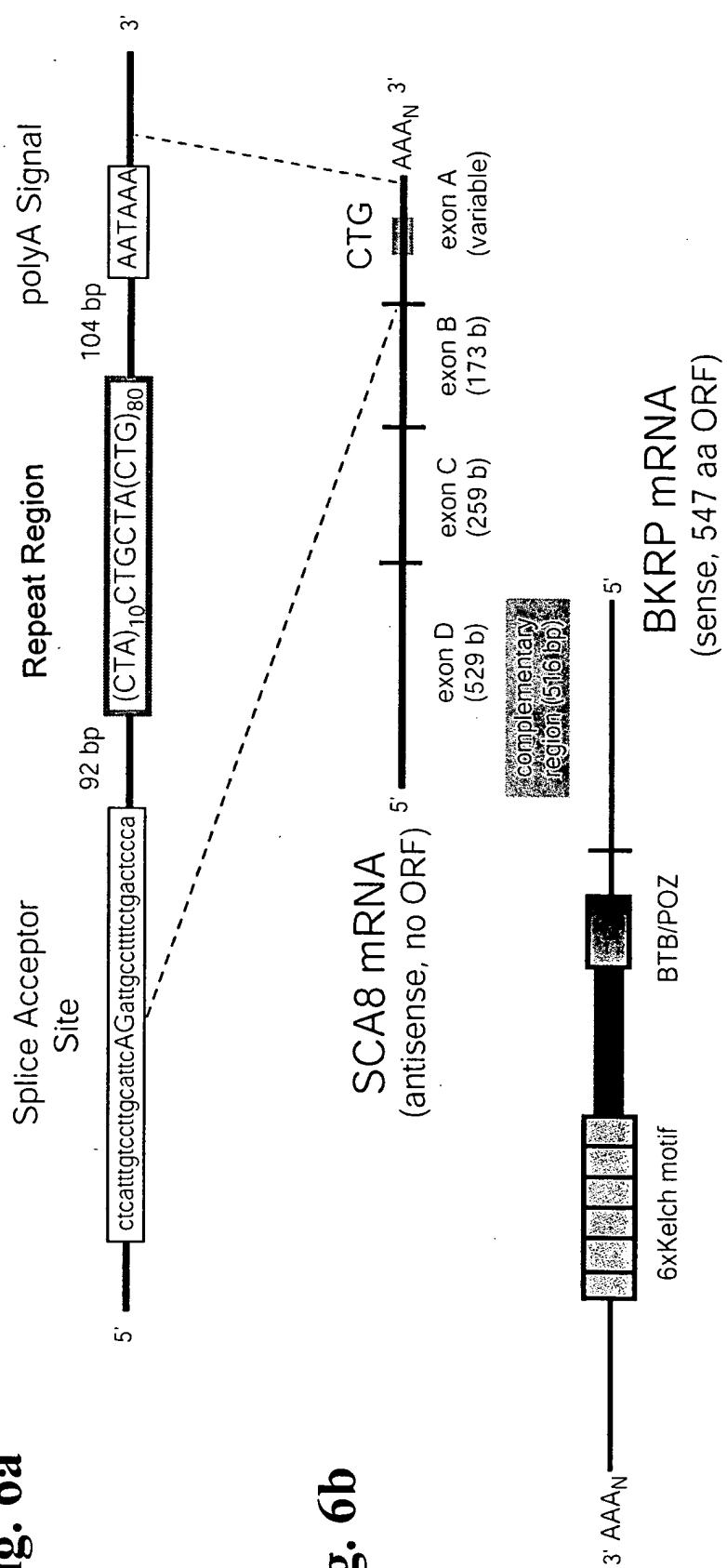


Fig. 6b



**Fig. 7a**

GAATTCATGCCTATAATTATAAGATCTGCCACCCCTACCAGCCTTACTGTTTTCTCATT  
GGTAATATTCACTGAAGTCACTGGTAATTTACATTTAAAATATGCAGTATGAATTGCAT  
ATATAGTACTTCTTAAATGTCAACACATTATCTTAAATCATTATCGAAGTATGAGAAG  
TACCTATCATATTGGTAAATAACCTTAAAGGTTTCCTAGTTCTGGCTCCAGACT  
AACCATCTTGACCTGTCATTCTAGTTTACTTCTGAGACATTCTATAGTCTGTGCTGA  
TATTCTCTACTATTCTCATTGCTCTGCATTCAAGATTGCCCTTCTGACTCCCAGCT  
TCCACGGAGAGATTAACCTGTTGGCTGAAGCCCTATCCCATTCTGGCTAGACCCTG  
GGTCCTTCATGTTAGAAAACCTGGCTTACTACTACTACTACTACTACTACTAC  
TACTGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG  
TGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG  
TGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG  
TGCTGCATTTTAAAAATATTATCTTATTACTATTGATGTTATAATTGTTATAT  
ATTTCCTACACTCCTCATACTGCTTATCTTACTTAAGAATTATGAATAAAGAATT  
GATTTTCAATACATCCTCCAAAATTATCTGATGTTGAGTTAGTTGCTCTCTCTGTG  
CATTCTCAGTCCTCACAAGCCTTCTCAAACACAATGTTATCAAAGAAAATTGTAGCAA  
CCAATATACTTAGTGGAAATTCTCACAGAGTTGAGTGTAGGAAACAGTATTCACTGTAT  
ATTAGTCATTTGCTCCAAATAGAAGGTGCATAACATAAATTATTAAGTGGATGAATGC  
TTTATTTCTTATAAAAGTACCTTCTTGCTTCACTGACATTCTATACAACATTCTT  
GTAAGCAAGGAATGAATT

**Fig. 7b**

ATCCTTCACCTGTTGCCCTGGCTAGAGTTGCTGGCTCCACTTGAGCTCTGCAGAACCA  
 GCCCTTTTCGTCGGTCAGGAAAGTCCATGCCCTGGCACCCACCTCCTCTAGTGACT  
 CCACGTAGAAGAGAGTCCTGGCTGGCTGAGTGCCCTGCCAGGAGCCCCTGCTGCA  
 GCCTCGTGGCAACTGGAAGCAGGGGCCATTAGCGGATTGAAGGAAGAGGAGGAAGAGG  
 ACGGGGAGGACGATGAAGAGGAAGAGGAGGAAGGCTTCCAGAAAGTGCTCACACCGC  
 TTCTCTCTGGCTTTGAGCAGGGCACTCTGGCTGGGCCCCAGTGCTCAAAGCTGCCAC  
 TGCCGTCCTGTTGCAGGCCCTCCCCCGCCGGCCGGTGGAAAGGAGACGGGTGGC  
 TGAAGAGTTCCAGCGGAGTCGAGAATGTGCTTCACATCGAAGTCTTCCAGAGC  
 CTGACATGCTTACGCACAGAAGGCAAAAGGCTGGCAGCTCACGAGGGTTCTGGAGGCT  
 GGGAAAGTTCAAGACCAATGCACGAGAATTGGCTAAAGAGAATCTTCTTGCTGAACA  
 CACATAGTAGAAGGCAGAAGGGCAAGAGAGAGAACAAAGTCTGTCTCCACATGGCAGA  
 AGAGCAGAGGAGACAGAACCTACTCCTCATGGCAACCACCCATCAATGACAAAAATCC  
 TAGAAGGATGTATGTATAGGAAGTTGAAGTGTGAGAAGAGAATGGCTCAGAGTCAGCG  
 GGAACAAAGATTCAAACCTCAGAGAGAGAGGAAAGAAAAACATTAAATATCTGGCATA  
 ATCCXAGACTATTACGACAAGTGTCTGTGTTCTAATAATAAAACAGACTTCACCTCG  
 GAGTACCTGCAGAACTGGGACCCCAATGACCAGGGAGAATGAAGAACAACTTGTGAAAG  
 ATTGCCTTCTGACTCCAGCTTCCACGGAGAGATTAACCTGTTGGCTGAAGCCCTAT  
 CCCAATTCCCTGGCTAGACCCTGGGCTCTCATGTTAGAAAACCTGGCTTTACTACT  
 ACTACTACTACTACTACTACTGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
 GCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
 GCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
 GCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
 ATTGATGTTATAATTGTTATATATTCCATACTCCTCATACTGCTTATCTCTTACT  
 TAAGAATTATGAATAAAGAATTGATTTCA

**Fig. 7c**

AAGCGTACCCCTGCCAGATCTCTGGTGCACCTGCGCCCCGTCCCTGGCCTTTGAG  
 GATGCCCGATAGCCTGCCGGTGGCTCTGAGAAAGTCAATTGCTTCTGCAATGCCAGA  
 AGAGGTGGTTTATATAGTCAGTTGTAAGAGAAAATAGATATTCTAGCGCATATAG  
 GGAGGCAAAAGAAAAGCCCGCTGTGAAGCTGTCAAGGTCTCACAGTACAATTTC  
 TCTGCCTCAGCGCTCCTCCCTCCCTGGAGGCTGGGAAGTTCAAGACCAATGCACG  
 AGAATTGGCTAAAGAGAATCTCTTGCTCTGAACACACATAGTAGAAGGCAGAAGGGC  
 AAGAGAGAGAACAAAGTCTGTCTCCACATGGCAGAAGAGCAGAGGAGACAGAACCTAC  
 TCCTCTATGGCAACCACCCATCAATGACAAAATCCTAGAAGGATGTATGTATAGGAAG  
 TTGAAGTGTGAGAAGAGAATGGCTCAGAGTCAGCGGGAAAGATTGCTTCTGAC  
 TCCCTGCTCCACGGAGAGATTAACCTGTTGGCTGAAGCCCTATCCAATTCCCTGGCT  
 AGACCCCTGGGCTCTCATGTTAGAAAACCTGGCTTACTACTACTACTACTACT  
 ACTACTACTGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
 GCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
 GCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
 GCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
 TGTTATATATTCCATACTCCTCATACTGCTTATCTCTTACTTAAGAATTATGAAT  
 AAAGAATTGATTTCA

Fig. 7d

AGTGG ACACAGATGG CTCCTTGAA TATTGGGAGA GCAGGTGCCT  
TCACC TGTGTCTACC GAAGGAACCT ATAACCCTCT CGTCCACGGA  
  
GTGTGGTAGT CATCAAGCAA CCTTGACTTA TTGATATTTT ACTTGGAAAG  
CACACCATCA GTAGTCGTT GGAACGTGAAT AACTATAAAA TGAACCTTTC  
  
ATTTTACTTG CTGGAGTGGT TATTTTATA TTGAATGGCA AGAATGAGAA  
TAAAATGAAC GACCTCACCA ATAAAAATAT AACTTACCGT TCTTACTCTT  
  
CTTCCAGAGA TGAAAACCTCT TCAAGAACAA GGATCTCTGT AGCGTTACCT  
GAAGGTCTCT ACTTTGAGA AGTTCTTGTG CCTAGAGACA TCGCAATGGA  
  
ACTGATGTTG AAAGAGTTAG TAGATCAAAC AGAATAGTAG GAAACAAGAA  
TGACTACAAC TTTCTCAATC ATCTAGTTG TCTTATCATH CTTTGTCTT  
  
AACATTAAAC TTATACAGGA AAAATGTCTG GCCATATGTT AGTTAGTTCG  
TTGTAATTG AATATGTCCT TTTTACAGAC CGGTATACAA TCAATCAAGC  
  
GGAATGGTTA TTGGTAATTG GTTTGTATT ATAGCATAACA ATAACCTAGAG  
CCTTACCAAT AACCATTAAA CAAACATAA TATCGTATGT TATTGATCTC  
  
TTACCAAAGG CTTGTTTTT CTTGAGCAGT TGAAAGGAGA GACCAATATT  
AATGGTTCC GAACAAAAAA GAACTCGTCA ACTTCCTCT CTGGTTATAA  
  
TGTGACATGG ATAGTTTCAT GACCACAAC CATTCAATCA TTTTATAGTC  
ACACTGTACC TATCAAAGTA CTGGTGTGA GTAAGTTAGT AAAATATCAG  
  
TATGGCAATA TCCAAGAGAT TGCCAAGAGT AGAAGACAGA ATATTCATC  
ATACCGTTAT AGGTTCTCTA ACGGTTCTCA TCTTCTGTCT TATAAAGTAG  
  
TGACAGTATC TGATTGGTTT ACTGTTTTT TAATCATATG TGGTCATAAC  
ACTGTCATAG ACTAACCAAA TGACAAAAAG ATTAGTATAC ACCAGTATTG  
  
GGGAAGCAGA ATTATGCTTT ATTCAAACAA ACCTGTTCT GCCTCATTCT  
CCCTTCGTCT TAATACGAAA TAAGTTGTT TGGACGAAGA CGGAGTAAA  
  
CCTAAGCTAT GAGAACAAATT AGAGAACAG ATTCAATGCTT GTATCTGCA  
GGATTGATA CTCTTGTAA TCTCTTGTC TAAAGTACGAA CATAGAACGT  
  
TTCAGAAAAC AAACTGTCCT ACTAATCAAAC GCTGCAT  
AAGTCTTTG TTTGACAGGA TGATTAGTTT CGACGTA